



STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 CONSTRUCTION AND
 MATERIALS BUREAU
 CENTRAL LABORATORY

BORING LOG

Waterbury-Stowe
 STP 2945(1)
 VT-100 Mast Arms

Boring No.: **B-204**

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Pin No.: 11b342

Checked By: **END**

Boring Crew: Emerson, Garrow, Mazzei
 Date Started: 7/14/17 Date Finished: 7/14/17
 VTSPG NAD83: N 676501.21 ft E 1578746.22 ft
 Station: 86+55 Offset: -13.70
 Ground Elevation: 582.3 ft

Casing: WB Sampler: SS
 I.D.: 4 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID CE = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
07/14/17	6.5	W.T. during drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.55		Asphalt Pavement, 0.0 ft - 0.55 ft								
0.55 - 1.1		A-1-b, SaGr, brn, Moist, Rec. = 1.1 ft				1-7-12-2 (19)	8.4	44.5	42.1	13.4
1.1 - 1.9		A-1-b, SiSaGr, brn, Moist, Rec. = 0.8 ft				3-2-5-3 (7)	14.1	41.3	33.9	24.8
1.9 - 2.7		Field Note:, NXDC, Cleaned out casing								
2.7 - 3.5		A-4, GrSiSa, brn, Moist, Rec. = 0.8 ft				2-3-1-1 (4)	20.5	26.5	37.1	36.4
3.5 - 4.3		Field Note:, No Recovery				2-1-1-1 (2)				
4.3 - 5.2		A-4, SiSa, gry, Moist, Rec. = 0.9 ft				1-1-1-1 (2)	31.8	2.6	59.5	37.9
5.2 - 6.1		A-1-b, GrSa, gry, Moist, Rec. = 0.7 ft, Lab Note: Pieces of decomposing wood and wood fibers were within sample					31.8	31.4	55.0	13.6
6.1 - 7.3		A-1-b, GrSa, gry, Moist, Rec. = 1.2 ft				1-4-2-2 (6)	20.6	39.3	52.2	8.5
7.3 - 15.0		Field Note:, NXDC, Cleaned out casing								
15.0 - 16.5		A-1-b, SaGr, gry, Moist, Rec. = 0.5 ft				10-14-12-11 (26)	9.6	48.1	38.7	13.2
16.5 - 17.3		17.3 ft - 22.3 ft, Black-light gray, Graphitic PHYLLITE, consisting of zones with very fine-grained black minerals that are graphitic and host sulfides, interbedded with "sandy" light gray-green zones of muscovite-biotite-chlorite-quartz. Joints are moderately rough with bright orange oxidation. Moderately hard, Moderately weathered, Fair rock, NX, RMR=49	1 (80)	72 (58)	7					
17.3 - 22.3		17.3 ft - 22.3 ft, Black-light gray, Graphitic PHYLLITE, consisting of zones with very fine-grained black minerals that are graphitic and host sulfides, interbedded with "sandy" light gray-green zones of muscovite-biotite-chlorite-quartz. Joints are moderately rough with bright orange oxidation. Moderately hard, Moderately weathered, Fair rock, NX, RMR=49			7					
22.3 - 27.3		22.3 ft - 27.3 ft, Black-light gray, Graphitic PHYLLITE, consisting of zones with very fine-grained black minerals that are graphitic and host sulfides, interbedded with "sandy" light gray-green zones of muscovite-biotite-chlorite-quartz. Joints are moderately rough with bright orange oxidation. Moderately hard, Moderately weathered, Fair rock, NX, RMR=44	2 (70-80)	96 (47)	7					
27.3 - 30.0		Hole stopped @ 27.3 ft			3					
30.0 - 31.0		Remarks: Hole collapsed at 16.0 feet.			4					
31.0 - 32.0					5					
32.0 - 33.0					5					

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 <<SUB>><<SUB>> is the hammer energy correction factor.
 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.